

Claims

What is claimed is:

1. A method for processing information in a processing device configured to support an extensible mark-up language, the method comprising the steps of:

parsing an extensible mark-up language document using a parser based on a designated subset of a complete extensible mark-up language grammar; and

utilizing a result of the parsing step to control an operation of the processing device.

2. The method of claim 1 wherein the parser comprises a scalable parser capable of implementing a plurality of different subsets of the complete extensible mark-up language grammar.

3. The method of claim 2 wherein the scalable parser comprises at least one of a micro XML parser which implements a first subset of the complete extensible mark-up language grammar and a macro XML parser which implements a second subset of the complete extensible mark-up language grammar.

4. The method of claim 3 wherein the second subset is a superset of the first subset.

25 5. The method of claim 1 wherein the utilizing step comprises presenting information associated with at least a portion of the document to a user via the processing device.

6. The method of claim 5 wherein the information is presented in a visually-perceptible manner on a display of the device.

7. The method of claim 5 wherein the information is presented
5 in an audibly-perceptible manner using a speaker associated with the device.

8. The method of claim 1 wherein the processing device comprises a wireless telephone.

10

9. The method of claim 1 wherein the processing device comprises a personal digital assistant.

15

10. The method of claim 1 wherein the processing device comprises a remote control device.

20

11. The method of claim 1 wherein the designated subset of the complete extensible mark-up language grammar comprises one or more of the following elements:

25

[1] document ::= element*
[2] element ::= STag content ETag
[3] STag ::= '<' S? Name S?'>'
[4] ETag ::= '</' Name '>'
[5] content ::= element* | Char*
[6] Name ::= Char*
[7] Char ::= Unicode characters

12. The method of claim 1 wherein the designated subset of the complete extensible mark-up language grammar comprises a subset selected from a substantial continuum of a plurality of different subsets of increasing complexity, the subset being selected based
5 at least in part on computational and memory resources of the processing device.

13. An apparatus for processing information in an extensible mark-up language, the apparatus comprising:

10 a processing device operative to parse an extensible mark-up language document using a parser based on a designated subset of a complete extensible mark-up language grammar, wherein a result of the parsing by the parser is utilized to control an operation of the processing device.

15 14. An article of manufacture comprising a machine-readable storage medium containing one or more software programs for processing information in a processing device configured to support an extensible mark-up language, wherein the one or more software programs when executed implement the steps of:

20 parsing an extensible mark-up language document using a parser based on a designated subset of a complete extensible mark-up language grammar; and

25 utilizing a result of the parsing step to control an operation of the processing device.